SYSTEMS AND METHODS FOR GENERATING
STRING CORRELITHM OBJECTS

5 <u>ABSTRACT OF THE DISCLOSURE</u>

In one aspect of the invention, a system for processing data includes a memory operable to store a plurality of correlithm objects. Each correlithm object includes a plurality of values defining a point in a particular space. The particular space is defined by a plurality of dimensions and includes a plurality of points. The system also includes a processor

10 operable to generate the values in at least a portion of the correlithm objects. A distance between a first point associated with one of the correlithm objects and each of the plurality of points in the particular space defines a distribution having a mean and a standard deviation such that a ratio of the mean to the standard deviation increases with the number of dimensions of the particular space. A distance between the first point and a second point

15 associated with another of the correlithm objects is substantially larger than the mean of the distribution.